

To Whom It May Concern:

I am a PhD candidate in the school of Civil Engineering at Purdue University. My research involves utilizing Ground Penetrating Radar for highway analysis. This includes determining the pavement thickness as well as other parameters such as moisture retention.

I have a four years experience utilizing a GPR system currently banned by FCC. The system was registered with the FCC. The center band frequency of the horn antenna is 1GHz. This grandfathered system was utilized to develop a network level thickness data base for the Indiana Interstate system.

In my opinion to be viable for certain highway applications including evaluating the thickness of thick pavements at highway speeds, GPRs must operate above the 980 MHz at the levels specified in section 15.209 of the commission's rules. This provides the critical combination of resolution and penetration necessary for many highway applications.

I support the Wavebounce waiver.

Sincerely,
Dwayne Harris